Dart Aerospace Ltd. Friday, 11/04/2008 9:01:52 AM User: Julie Lecocq **Process Sheet** : CU-DAR001 Dart Helicopters Services **Drawing Name** : TUBE ASSEMBLY Customer **Job Number** : 38551 **Estimate Number** : 11919 : D2003037 P.O. Number **Part Number** : UNDER REVIEW This Issue : 11/04/2008 S.O. No. : **Drawing Number** : NC : N/A Prsht Rev. **Project Number** First Issue : // Type : SMALL/MED FAB **Drawing Revision** : 35294 **Previous Run** Material **Due Date** : 21/04/2008 Qty: Um: Written By Checked & Approved By Comment : Est В 00.01.12 Re-format EC **Additional Product** Job Number: Seq. #: **Machine Or Operation:** Description: M304TR0500W035 304 RD Tube .500 x .035W 1.0 Comment: Qty.: 2.0457 f(s)/Unit Total: 12.2743 f(s) 304 RD Tube .500 x .035W Cut as per template D2003-037 (23.38" long) Material:1/2"Æ x 0.035" wall AISI 304 SS tubing Cut: 23.38" long as per Dwg D2003 Material: M2650-6 Heat sleeve Batch: M106781 08-04-17 M26506 Firesleeve-crkl .375IDia Comment: Qty.: 2.0700 f(s)/Unit Total: 12.4200 f(s) 08-04-17 Firesleeve-crkl .375IDia 3.0 MS208198J Sleeve Total: Comment: Qty.: 2.0000 Each(s)/Unit 12.0000 Each(s) Pick Qty Part Number Desc Batch: F 08-05-15 2 MS20819-8J Sleeve <u>M 10</u> 4.0 AN8188J

Comment: Qty.:

Pick

2.0000 Each(s)/Unit

Nut

Qty Part Number Desc

AN818-8J

Total:

Batch:

12.0000 Each(s)

FF 08-05-15

Each

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES	WORK ORDER CHANGES												
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector								
Part No		PAR #: Fault Category: NC	:R: Yes	No DQ	\ <u>.</u>	Date:									

QA: N/C Closed: ____ Date: ____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)											
		Description of NC		Corrective Action Section B	···	Varification	A	A =======					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector					
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NOTE: Date & initial all entries

Date: User:	Friday, 11/04/2008 9:01:52 AM Julie Lecocq	Due	one Chart	
7	mer: CU-DAR001 Dart Helicopi		cess Sheet Drawing Name: TUBE ASS	EMBLY
4. Oxoto		SIG CONTIOUS	Diawing Name: 105E/100	
	nber: 38551		Part Number: D2003037	
Job Number:				
Seq. #:	Machine Or Operation:		Description :	
5.0	D3158045	Heat S	hrink 1" x 4.5"	
Co NV	mment: Qty: 2 1.0000 Each Heat Shrink 1" x 4.5" Pick:	(s)/Unit Total : 6.0000 E	each(s) Gunit	1000110011001
D2182-0	Qty Part Number 20 ff 1 D3158-045	Description Batch Heat shrink 317	067	FF 00-04-17 (
6.0	SMALL FAB 1	SMALI	_ & MEDIUM FAB RESOURCE 1	
Co	mment: SMALL & MEDIUM F		AND AND	IBXUT AF TURT WITH
	Form tube as per terr Assemble as per Dwo	· ·	EWG. GOO.	LEXENT OF TUDE WITH 4.1 FF 08-05-15 (6
7.0	QC5	INSPE	CT WORK TO CURRENT STEP	110011111111111111111111111111111111111
Co	omment: INSPECT WORK TO	CURRENT STER	(3/	
8.0	PACKAGING 1		AGING RESOURCE #1	U 3/1 X (B)
	Ĕ.		•	
Co	mment: PACKAGING RESOL Identify and Stock	JRCE #1	1	
	Location:57	192	18	08/05/15 (X6)
9.0	QC21	FINAL	INSPECTION/W/O RELÉASE	
Co	mmont: FINAL INSPECTION	ANO DEL EACE		08/05/169
	mment: FINAL INSPECTION/	W/O RELEASE		m= 08-03-15
Job Completion				27711 08 62 73
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Dart Aerospace Ltd

W/O:		WORK ORDER CH	WORK ORDER CHANGES											
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector							
Part No		PAR #: Fault Category:	NCR: Yes	No DQ	A:	Date:	L							

QA: N/C Closed: ____ Date: ____

NCR:			WORK ORDER NON-CONFORMANCE (NCR)											
		Description of NC		Corrective Action Section B		Verification	Ammanal	A						
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector						
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NOTE: Date & initial all entries





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	DESIG	4	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA					
	CHEC	A STATE OF THE STA	APPROVED	D2003 REV. B SHEET 1 OF 2					
	DATE	,		TITLE SCALE					
_	99.0	6.08		206 CABIN HEATER TUBE ASSEMBLIES NTS					
	Α		90.04.09	NEW ISSUE					
	В		99.06.08	UPDATE PER TEMPLATES; ADD P/N'S; 0.025 TUBING NOW 0.035 (TSR1049)					

RELEASED 44.06.08 KED

JA 095.04.11

CC.08.27 CB lengths wrong to 09.04.11												
P/N	TEMPLATE	HEATSLEEVE LENGTH	CUT LENGTH OF TUBE ²	MS20819-8J SLEEVE	AN818-8J NUT	MS20819-8D SLEEVE	AN818-8D NUT	MS20819-6D SLEEVE	AN818-6D NUT	DESC	MATERIAL ^{4/8/7}	VENDOR OR SPEC
D2003-001	T2003-001	5.2	6.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-001	T2003-003	7.3	8.12		-	-		2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-005	T2003-005	9.8	10.62					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-007	T2003-007	20.0	19.63	_	 	-		2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-007	T2003-007	12.38	12.44	 	 			2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-011	T2003-003	33,31	32.38					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-013	T2003-013	12.7	13.54		 			2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-015	T2003-015	17.2	18.00		 			2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-017	T2003-013	17.0	16.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-017	T2003-017	9.8	10.62	-		2	2	- 2		TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-019	T2003-019	N/A	2.25			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-021	T2003-021	4.5	5.33			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-025	T2003-025	9.8	10.60	-		2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-023	T2003-023	7.25	7.38			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-027	T2003-027	17.2	18.00	-		2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-029 D2003-031	T2003-029	14.6	15.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-031	T2003-031	29.75	29.62	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-035	T2003-035	24.7	27.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-035 D2003-037	T2003-035	24.7	23.38) 2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-037	T2003-037	34.0	34.00	2	2	·····				TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
				2	2							
D2003-041	T2003-041	6.0	5.88 10.75							TUBE ASS'Y	CRES 0.500 OD x 0.035 W CRES 0.500 OD x 0.035 W	AISI 304
D2003-043	T2003-043	11.7		2	2					TUBE ASS'Y		AISI 304
D2003-045	T2003-045	3.50	2.44	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-047	T2003-047	5.56	5.56	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-049	T2003-049	33.2	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-077	T2003-077	N/A	6.25					1		JET	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-101	T2003-101	13,25	13.13					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-103	T2003-103	12.38	12.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-105	T2003-105	10.75	10.60					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-107	T2003-107	12.75	12.25	ļ				2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-109	T2003-109	8.25	8.125			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-111	T2003-111	4.75 4.0 /	4.625		<u> </u>	2	_2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-116	T2003-116									HEATSLEEVE	M2650-20 CRINKLE-SOFT	STRATOFLEX
D2003-120	T2003-120	4.0								HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-14	T2003-14	4.0								HEATSLEEVE	M2650-14 CRINKLE-SOFT	STRATOFLEX
D2003-16	T2003-16	4.0	0.00							HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-205	T2003-205	9.75	9.60		·			2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 Wg	COWW-T-700/6
D2003-207	T2003-207	3.75	3.75					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	TRN VMV-T-700/6
											, (GU	VEERING

24.81"

06.04.17

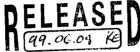
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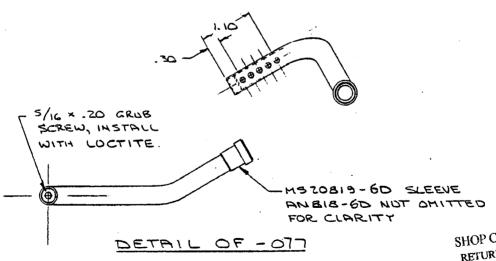
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	99.06.08		206 CABIN HEATER TUBE	ASSEMBLIES NTS						





Notes:

- (1) USE STRATOFLEX M2650-6 CRINKLE-SOFT HEATSLEEVE.
- (2) TUBING ASSEMBLIES TO BE CUT AND BENT IN ACCORDANCE WITH TEMPLATES.
- (3) TUBES TO BE FLARED 30° TO MATE WITH FITTINGS MADE TO MS33514.
- (4) ENSURE SEAMLESS TUBING IS USED.
- (5) INSTALL HEATSLEEVE OVER ALL TUBES WITH A DESIGNATED LENGTH OF HEATSLEEVE PER THE PARTS LIST.
- (6) 5052 (WW-T-700/4) TUBING MAY BE SUBSTITUTED WHEN 6061 TUBING IS NOT AVAILABLE.
- (7) 0.049 WALL THICKNESS CRES TUBING MAY BE SUBSTITUTED WHEN 0.035 IS NOT AVAILABLE.
- (8) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.



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